

TENNESSEE VALLEY AUTHORITY
KNOXVILLE, TENNESSEE 37902

May 6, 1970

Mr. Jack Howard, Assistant Manager
Harriman Utility Board
Harriman, Tennessee 37748

Dear Mr. Howard:

TVA will offer no objection to the utility board's crossing under our Rockwood-Harriman 69-Kv Line as shown on the enclosed prints of drawing SC-51228. We understand that the crossing has been completed and inspected by a member of our Kingston Engineering Unit. The clearances provided at the crossing are sufficient to meet the requirements of the National Electrical Safety Code.

We are returning your application for the crossing under the Petros Tap in our Harriman-Harriman District No. 1 Line. The plan sketch should show the location of the utility board's poles in relation to the point of crossing. The profile portion of the form should show the profile of the distribution circuit with an indication of the height of the TVA conductors in relation to the distribution line at the point of crossing.

It will be appreciated if you will submit a new application for this crossing. A sample of a prepared application is enclosed to show the data that is required on the application.

Very truly yours,

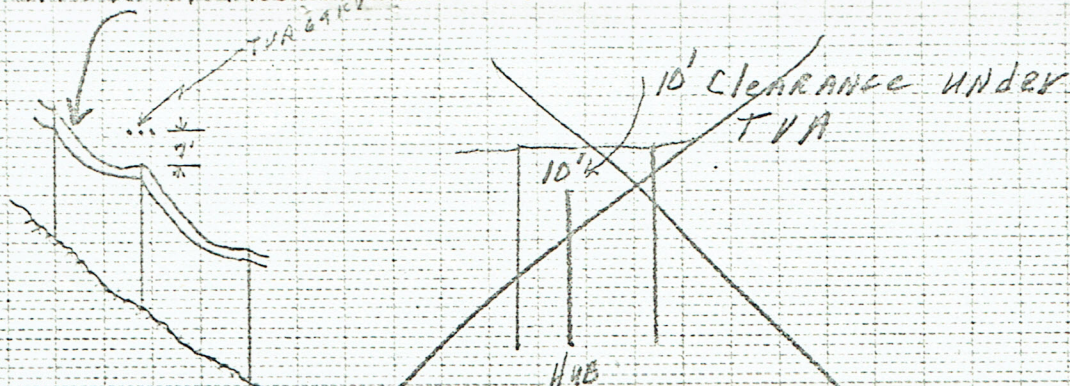
TENNESSEE VALLEY AUTHORITY

Albert O. Daniels

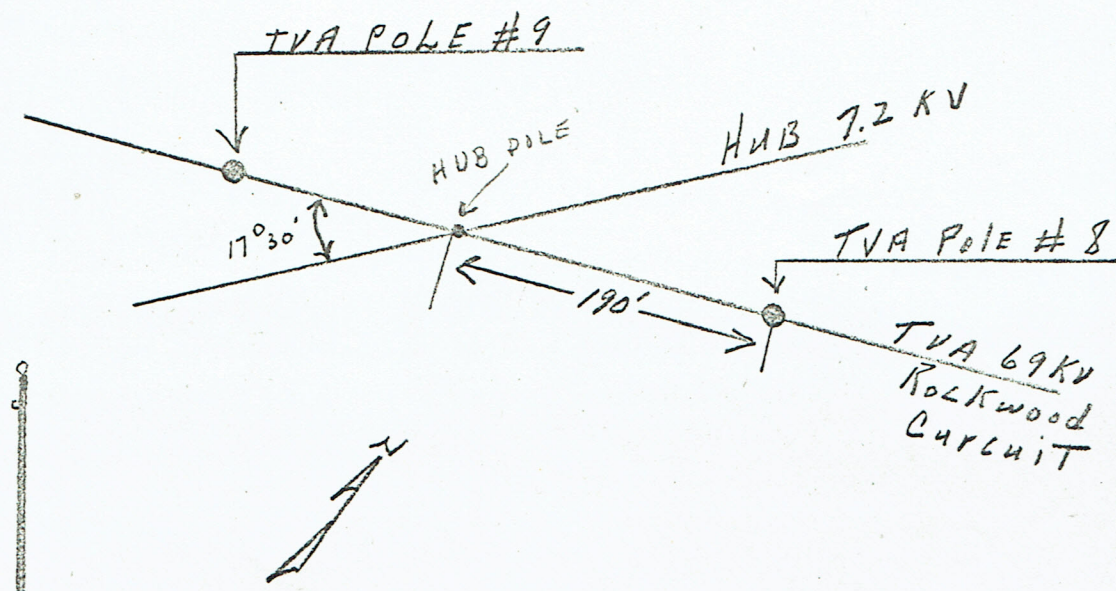
Albert O. Daniels
District Manager
Division of Power Marketing

Enclosures
ENCLOSURES 

APPROX. PROFILE PER FIELD CHECK 4-30-70



PROFILE OF CROSSING SPAN OVER T.V.A. RIGHT-OF-WAY-SCALE 1"=40 VERT. AND 1"=400 HOR.



PLAN OF CROSSING SCALE 1" = 200'

SKETCH SHOWING APPROXIMATE ANGLE OF CROSSING, NORTH ARROW, DISTANCES TO ADJACENT STRUCTURES OF EACH LINE, T.V.A. STRUCTURE NUMBERS, CONDUCTOR SIZE AND CONFIGURATION OF CROSSING CIRCUIT

LINE CROSSING DATA				DATA FROM T.V.A. RECORDS			
A	CONDUCTOR HEIGHT AT CROSSING, AT TEMP. ____° F.	PRES-ENT	PRO-POSED	A	CONDUCTOR HEIGHT AT CROSSING WITH SAG AT 120° F. FINAL		
1	T.V.A. POWER CONDUCTOR, LOWEST	40		1	T.V.A. POWER CONDUCTOR	37'	
2	T.V.A. TELEPHONE CONDUCTOR			2	T.V.A. TELEPHONE CONDUCTOR		
3	CROSSING CONDUCTOR, HIGHEST	30'		B	SIZE & MATERIAL OF POWER CONDUCTOR	477 MCM ACSR	
4	CROSSING CONDUCTOR, LOWEST	27'		C	SIZE & MATERIAL OF TELEPHONE CONDUCTOR		
B	SIZE & MATERIAL OF CROSSING CONDUCTORS	1/0 ALN		D	STATUS OF R/W	ERASE	
C	MINIMUM CLEARANCE OF CROSSING CONDUCTORS OVER T.V.A. R/W	27'		E	SURVEY STATIONS AT ADJACENT CROSSING STRUCTURES	8 35+50 9 39+00	
D	IS LOCATION ACCESSIBLE TO VEHICLES	YES		F	PROFILE DRAWING NO. & SHEET NO.	1 LW2433	

SEE DWG. SC-22467, SHEETS 1 & 2 SHOWING SAMPLE APPLICATION, RECOMMENDED MIN. CLEARANCES, ETC. IN ANY CASE THE REQUIREMENTS OF THE LATEST EDITION OF THE NATIONAL ELECTRICAL SAFETY CODE SHALL BE MET.

BETWEEN SUBSTATION HARRIMAN & SUBSTATION RockwoodCROSSING REPORTED COMPLETE
AS SHOWN _____ DATE _____

SIG.

DATE

HARRIMAN UTILITIES BOARD

TO THE TENNESSEE VALLEY AUTHORITY

CONSTRUCTION DATA FOR THE PROPOSED 7.2 KV. CROSSING UNDER
THE T.V.A. 69 KV. Rockwood-HARRIMAN LINE
NEAR HARRIMAN (TOWN) Peake (COUNTY)
TENN. (STATE), BETWEEN T.V.A. STRS. NO. B AND 9

DRAWN

SUBMITTED

APPROVED

DATE APR 16 1970

TRACED

CHECKED

CORRECT

J. L. Thompson
5-6-70SC-5122B

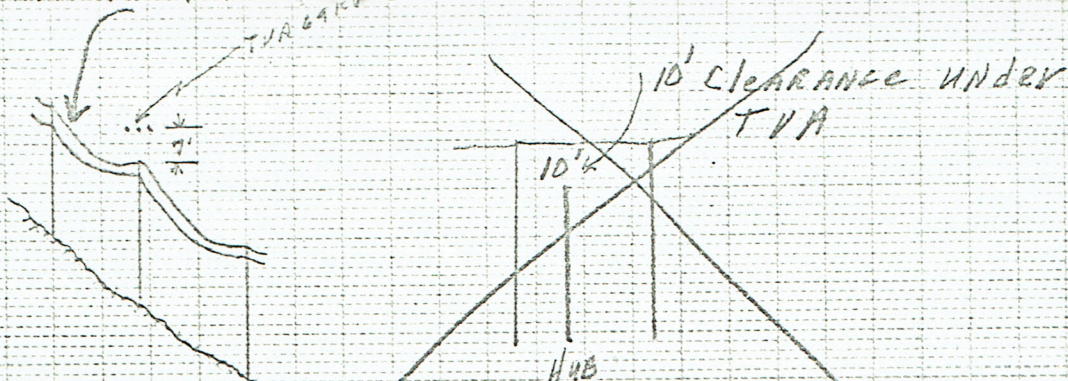
ISSUE

REVISION

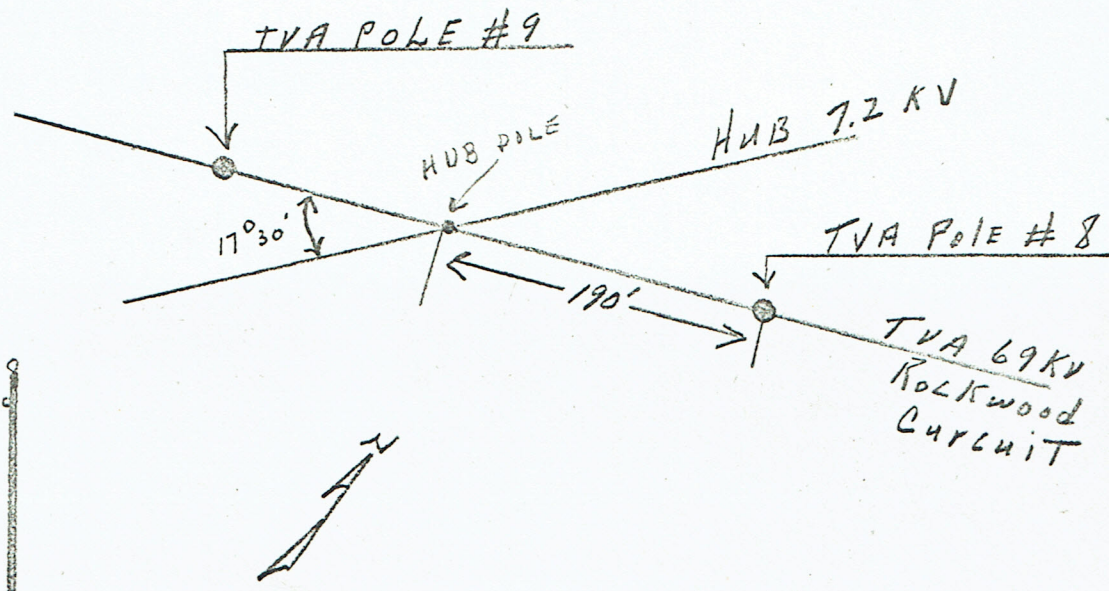
DATE

SIG.

APPROX. PROFILE PER FIELD CHECK 4-30-70



PROFILE OF CROSSING SPAN OVER T.V.A. RIGHT-OF-WAY-SCALE 1"=40' VERT. AND 1"=400' HOR.



PLAN OF CROSSING SCALE 1" = 200'

SKETCH SHOWING APPROXIMATE ANGLE OF CROSSING, NORTH ARROW, DISTANCES TO ADJACENT STRUCTURES OF EACH LINE, T.V.A. STRUCTURE NUMBERS, CONDUCTOR SIZE AND CONFIGURATION OF CROSSING CIRCUIT

LINE CROSSING DATA				DATA FROM T.V.A. RECORDS			
A	CONDUCTOR HEIGHT AT CROSSING, AT TEMP. ---°F	PRES-ENT	PRO-POSED	A	CONDUCTOR HEIGHT AT CROSSING WITH SAG AT 120°F. FINAL		
1	T.V.A. POWER CONDUCTOR, LOWEST	40'		1	T.V.A. POWER CONDUCTOR	37'	
2	T.V.A. TELEPHONE CONDUCTOR			2	T.V.A. TELEPHONE CONDUCTOR		
3	CROSSING CONDUCTOR, HIGHEST	30'		B	SIZE & MATERIAL OF POWER CONDUCTOR	477 MCM	ACSR
4	CROSSING CONDUCTOR, LOWEST	27'		C	SIZE & MATERIAL OF TELEPHONE CONDUCTOR		
B	SIZE & MATERIAL OF CROSSING CONDUCTORS	1/0 ALN		D	STATUS OF R/W	EA 58	
C	MINIMUM CLEARANCE OF CROSSING CONDUCTORS OVER T.V.A. R/W	27'		E	SURVEY STATIONS AT ADJACENT CROSSING STRUCTURES	8 35+50 9 39+00	
D	IS LOCATION ACCESSIBLE TO VEHICLES	YES		F	PROFILE DRAWING NO. & SHEET NO.	1 LW 2433	

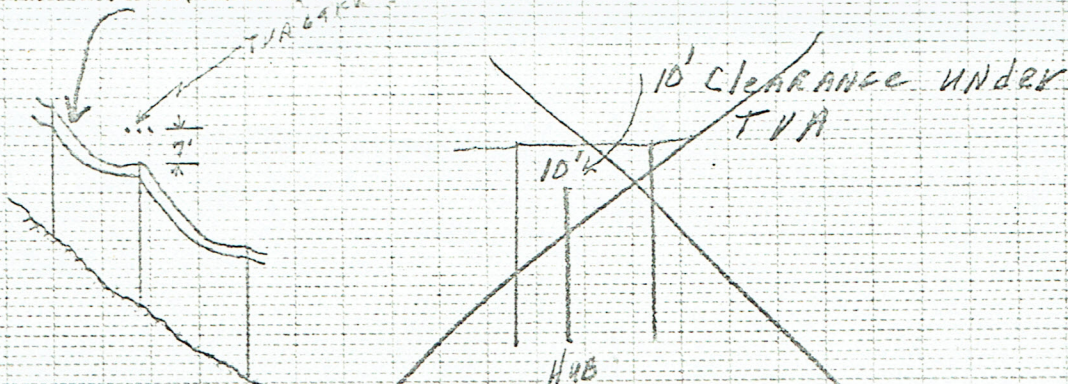
SEE DWG. SC-22467, SHEETS 1 & 2 SHOWING SAMPLE APPLICATION, RECOMMENDED MIN. CLEARANCES, ETC. IN ANY CASE THE REQUIREMENTS OF THE LATEST EDITION OF THE NATIONAL ELECTRICAL SAFETY CODE SHALL BE MET.

BETWEEN SUBSTATION HARRIMAN & SUBSTATION Rockwood

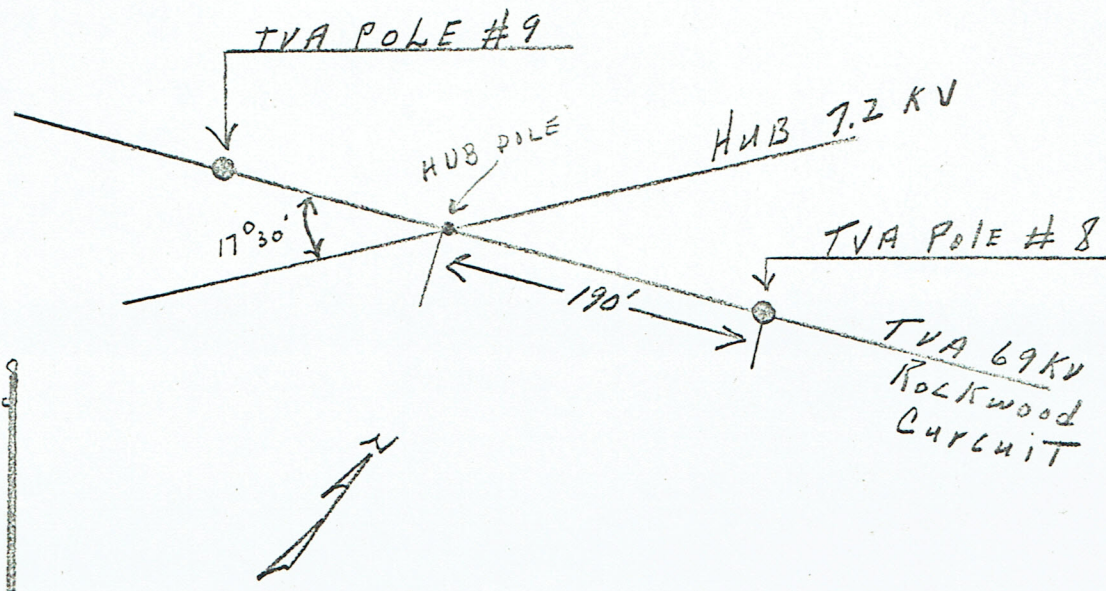
CROSSING REPORTED COMPLETE
AS SHOWN _____
SIG. _____ DATE _____

--- HARRIMAN UTILITIES BOARD ---
TO THE TENNESSEE VALLEY AUTHORITY
CONSTRUCTION DATA FOR THE PROPOSED 7.2 KV. CROSSING UNDER
THE T.V.A. 69 KV. Rockwood-HARRIMAN LINE
NEAR HARRIMAN (TOWN) Peane (COUNTY)
TENN. (STATE), BETWEEN T.V.A. STRS. NO. B AND 9
DRAWN _____ SUBMITTED _____ APPROVED J. L. Thompson DATE APR 16 1970
TRACED _____
CHECKED _____
CORRECT _____
ISSUE _____ REVISION _____ DATE _____ SIG. _____
5-6-70 SC-51228

APPROX. PROFILE PER FIELD CHECK 4-30-70



PROFILE OF CROSSING SPAN OVER T.V.A. RIGHT-OF-WAY-SCALE 1"=40' VERT. AND 1"=400' HOR.



PLAN OF CROSSING SCALE 1" = 200'

SKETCH SHOWING APPROXIMATE ANGLE OF CROSSING, NORTH ARROW, DISTANCES TO ADJACENT STRUCTURES OF EACH LINE, T.V.A. STRUCTURE NUMBERS, CONDUCTOR SIZE AND CONFIGURATION OF CROSSING CIRCUIT

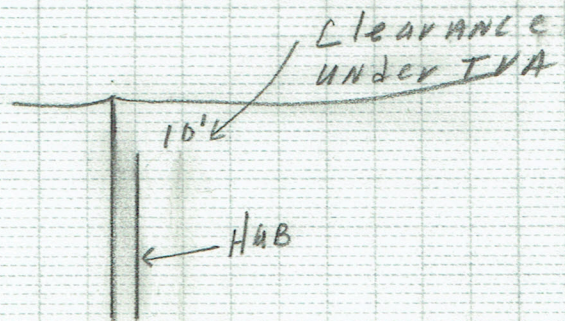
LINE CROSSING DATA				DATA FROM T.V.A. RECORDS			
A	CONDUCTOR HEIGHT AT CROSSING, AT TEMP. ---°F.	PRES-ENT	PRO-POSED	A	CONDUCTOR HEIGHT AT CROSSING WITH SAG AT 120°F. FINAL.		
1	T.V.A. POWER CONDUCTOR, LOWEST	40'		1	T.V.A. POWER CONDUCTOR	37'	
2	T.V.A. TELEPHONE CONDUCTOR			2	T.V.A. TELEPHONE CONDUCTOR		
3	CROSSING CONDUCTOR, HIGHEST	30'		B	SIZE & MATERIAL OF POWER CONDUCTOR	477 MCM	ACSR
4	CROSSING CONDUCTOR, LOWEST	27'		C	SIZE & MATERIAL OF TELEPHONE CONDUCTOR		
B	SIZE & MATERIAL OF CROSSING CONDUCTORS	1/0 ALN		D	STATUS OF R/W		EASE
C	MINIMUM CLEARANCE OF CROSSING CONDUCTORS OVER T.V.A. R/W	27'		E	SURVEY STATIONS AT ADJACENT CROSSING STRUCTURES	8 35+50 9 39+00	
D	IS LOCATION ACCESSIBLE TO VEHICLES	YES		F	PROFILE DRAWING NO. & SHEET NO.	1	LW 2433

SEE DWG. SC-22467, SHEETS 1 & 2 SHOWING SAMPLE APPLICATION, RECOMMENDED MIN. CLEARANCES, ETC. IN ANY CASE THE REQUIREMENTS OF THE LATEST EDITION OF THE NATIONAL ELECTRICAL SAFETY CODE SHALL BE MET.

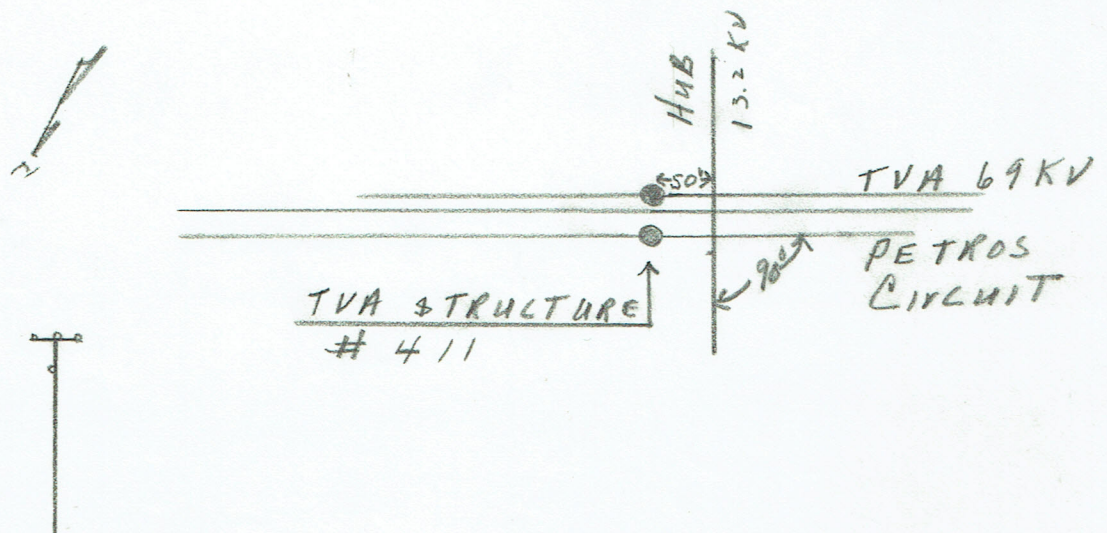
BETWEEN SUBSTATION HARRIMAN & SUBSTATION Rockwood

CROSSING REPORTED COMPLETE
AS SHOWN _____
SIG. _____ DATE _____

HARRIMAN UTILITIES BOARD			
TO THE TENNESSEE VALLEY AUTHORITY			
CONSTRUCTION DATA FOR THE PROPOSED <u>7.2</u> KV. CROSSING UNDER THE T.V.A. <u>69</u> KV. <u>Rockwood-HARRIMAN</u> LINE NEAR <u>HARRIMAN</u> (TOWN) <u>Reame</u> (COUNTY) <u>TENN.</u> (STATE), BETWEEN T.V.A. STRS. NO. <u>B</u> AND <u>9</u>			
DRAWN _____	SUBMITTED _____	APPROVED <u>Joe Thompson</u>	DATE <u>APR 16 1970</u>
TRACED _____	CHECKED _____	5-6-70	SC-51220
ISSUE _____	REVISION _____	DATE _____	SIG. _____



PROFILE OF CROSSING SPAN OVER T.V.A. RIGHT-OF-WAY-SCALE 1"=40' VERT. AND 1"=400' HOR.



PLAN OF CROSSING SCALE 1" = 200'

SKETCH SHOWING APPROXIMATE ANGLE OF CROSSING, NORTH ARROW, DISTANCES TO ADJACENT STRUCTURES OF EACH LINE, T.V.A. STRUCTURE NUMBERS, CONDUCTOR SIZE AND CONFIGURATION OF CROSSING CIRCUIT

LINE CROSSING DATA				DATA FROM T.V.A. RECORDS			
A	CONDUCTOR HEIGHT AT CROSSING, AT TEMP. ---° F.	PRES-ENT	PRO-POSED	A	CONDUCTOR HEIGHT AT CROSSING WITH SAG AT 120°F. FINAL.		
1	T.V.A. POWER CONDUCTOR, LOWEST	39'		1	T.V.A. POWER CONDUCTOR		40'
2	T.V.A. TELEPHONE CONDUCTOR			2	T.V.A. TELEPHONE CONDUCTOR		
3	CROSSING CONDUCTOR, HIGHEST	29'		B	SIZE & MATERIAL OF POWER CONDUCTOR		2/0 ACSR
4	CROSSING CONDUCTOR, LOWEST	26'		C	SIZE & MATERIAL OF TELEPHONE CONDUCTOR		
B	SIZE & MATERIAL OF CROSSING CONDUCTORS	40 ALU		D	STATUS OF R/W		EASE
C	MINIMUM CLEARANCE OF CROSSING CONDUCTORS OVER T.V.A. R/W	26'		E	SURVEY STATIONS AT ADJACENT CROSSING STRUCTURES	410 107+96 411 102+65	
D	IS LOCATION ACCESSIBLE TO VEHICLES	YES		F	PROFILE DRAWING NO. & SHEET NO.	2	6W-1655

SEE DWG. SC-22467, SHEETS 1 & 2 SHOWING SAMPLE APPLICATION, RECOMMENDED MIN. CLEARANCES, ETC. IN ANY CASE THE REQUIREMENTS OF THE LATEST EDITION OF THE NATIONAL ELECTRICAL SAFETY CODE SHALL BE MET.

BETWEEN SUBSTATION HARRIMAN & SUBSTATION _____

HARRIMAN UTILITIES BOARD

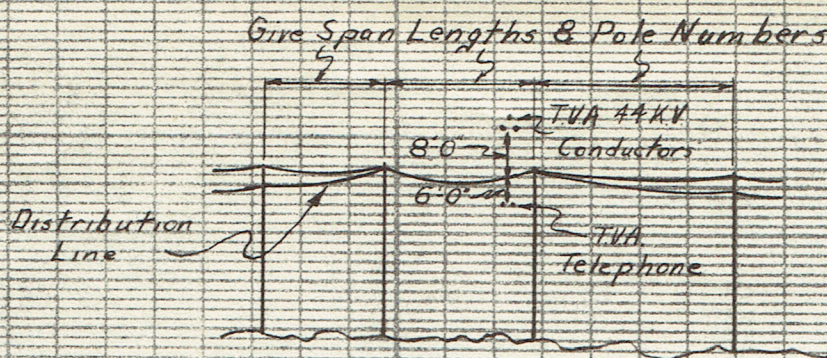
TO THE TENNESSEE VALLEY AUTHORITY

CONSTRUCTION DATA FOR THE PROPOSED 13.2 KV. CROSSING UNDER THE T.V.A. 69 KV Petros Tapin HARRIMAN-HARRIMAN DIST. #1 LINE NEAR HARRIMAN (TOWN) ROANE (COUNTY) TENN (STATE), BETWEEN T.V.A. STRS. NO. 410 AND 411

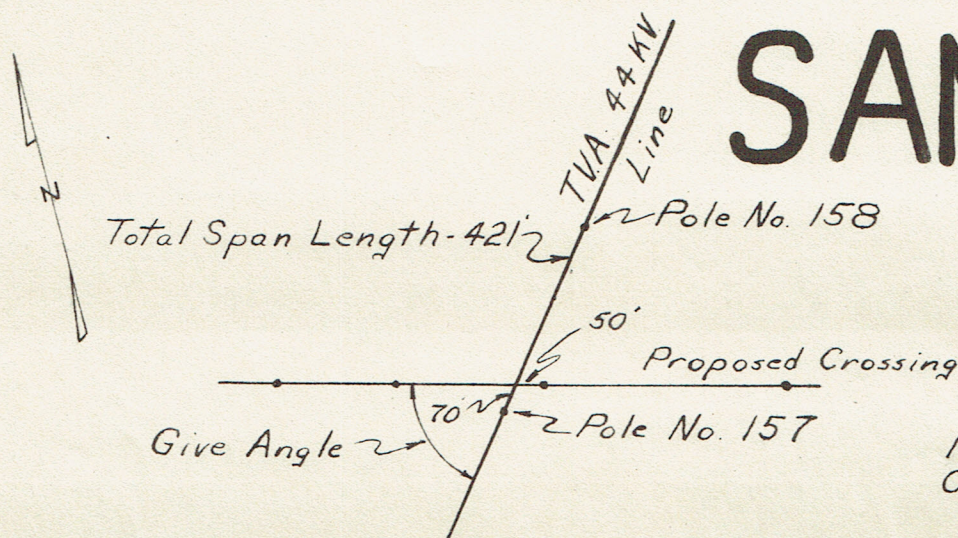
CROSSING REPORTED COMPLETE
AS SHOWN _____

SIG. _____ DATE _____

ISSUE	REVISION	DATE	SIG.	DRAWN _____	SUBMITTED _____	APPROVED _____	DATE <u>APR 16, 1970</u>
				TRACED _____			
				CHECKED _____			
				CORRECT _____			



PROFILE OF CROSSING SPAN OVER T.V.A. RIGHT-OF-WAY SCALE 1"=40' VERT. AND 1"=400' HOR.



SAMPLE

No. and Configuration
Of Proposed Crossing
Structures

PLAN OF CROSSING SCALE 1"=400'

SKETCH SHOWING APPROXIMATE ANGLE OF CROSSING, NORTH ARROW, DISTANCES TO ADJACENT STRUCTURES OF EACH LINE, T.V.A. STRUCTURE NUMBERS, CONDUCTOR SIZE AND CONFIGURATION OF CROSSING CIRCUIT

LINE CROSSING DATA			DATA FROM T.V.A. RECORDS		
A	CONDUCTOR HEIGHT AT CROSSING, AT TEMP. 68°F	PRES-ENT	PRO-POSED	A	CONDUCTOR HEIGHT AT CROSSING WITH SAG AT 120°F. FINAL
1	T.V.A. POWER CONDUCTOR, LOWEST	41'	*	1	T.V.A. POWER CONDUCTOR
2	T.V.A. TELEPHONE CONDUCTOR	27'	*	2	T.V.A. TELEPHONE CONDUCTOR
3	CROSSING CONDUCTOR, HIGHEST	33'		B	SIZE & MATERIAL OF POWER CONDUCTOR
4	CROSSING CONDUCTOR, LOWEST	33'		C	SIZE & MATERIAL OF TELEPHONE CONDUCTOR
B	SIZE & MATERIAL OF CROSSING CONDUCTORS	2ACSR		D	STATUS OF R/W
C	MINIMUM CLEARANCE OF CROSSING CONDUCTORS OVER T.V.A. R/W	32'		E	SURVEY STATIONS AT ADJACENT CROSSING STRUCTURES
D	IS LOCATION ACCESSIBLE TO VEHICLES	Yes		F	PROFILE DRAWING NO. & SHEET NO.

SEE DWG. SC-22467, SHEETS 1 & 2 SHOWING SAMPLE APPLICATION, RECOMMENDED MIN. CLEARANCES, ETC. IN ANY CASE THE REQUIREMENTS OF THE LATEST EDITION OF THE NATIONAL ELECTRICAL SAFETY CODE SHALL BE MET. IF A T.V.A. POLE IS TO BE ATTACHED AT CROSSING, SUBMIT FORM 593 DE AND OMIT THIS FORM

* IF SUFFICIENT SEPARATION IS NOT OBTAINABLE, ALSO INDICATE DESIRED HEIGHT OF T.V.A. CONDUCTORS IN "PROPOSED" COLUMN

CROSSING REPORTED COMPLETE AS SHOWN _____ SIG. _____ DATE _____				APPLICANT'S NAME _____			
				TO THE TENNESSEE VALLEY AUTHORITY			
CONSTRUCTION DATA FOR THE PROPOSED _____ KV. CROSSING UNDER THE T.V.A. 44 KV. HONDO-WALDEN LINE NEAR WALDEN (TOWN) CARSON (COUNTY) TENN. (STATE), BETWEEN T.V.A. STRS. NO. 157 AND 158				DRAWN _____		SUBMITTED _____	
				TRACED _____		APPROVED _____	
ISSUE _____ REVISION _____ DATE _____ SIG. _____				CHECKED _____		DATE _____	
				CORRECT _____		Reserved For T.V.A. Reference Number _____	